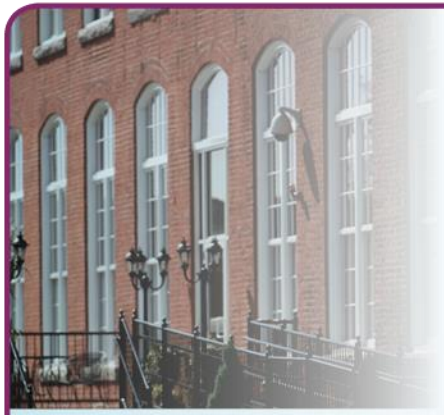


SCR
SOUTH COAST RAIL

www.mass.gov/southcoastrail

MBTA Contractor Forum
South Coast Rail Phase 1

January 31, 2020

massDOT
Massachusetts Department of Transportation

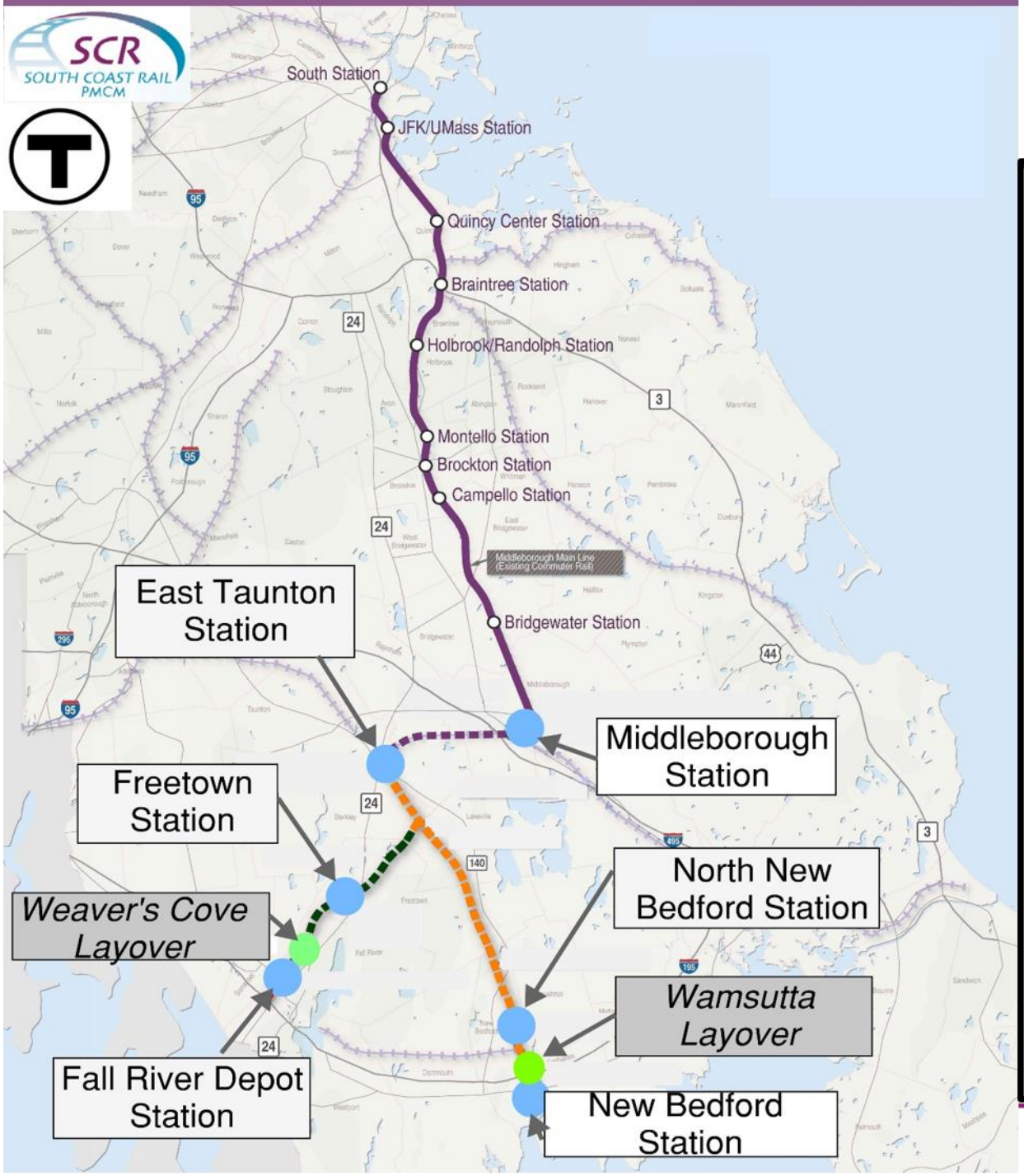
Massachusetts Bay
Transportation Authority

Agenda

- Welcome and Introductions
- Safety Briefing
- South Coast Rail (SCR) Phase 1 Overview
- SCR Upcoming Bid Packages
- Procurement/Prequalification Process
- Other MBTA Procurements
- Discussion

Program Goals and Benefits

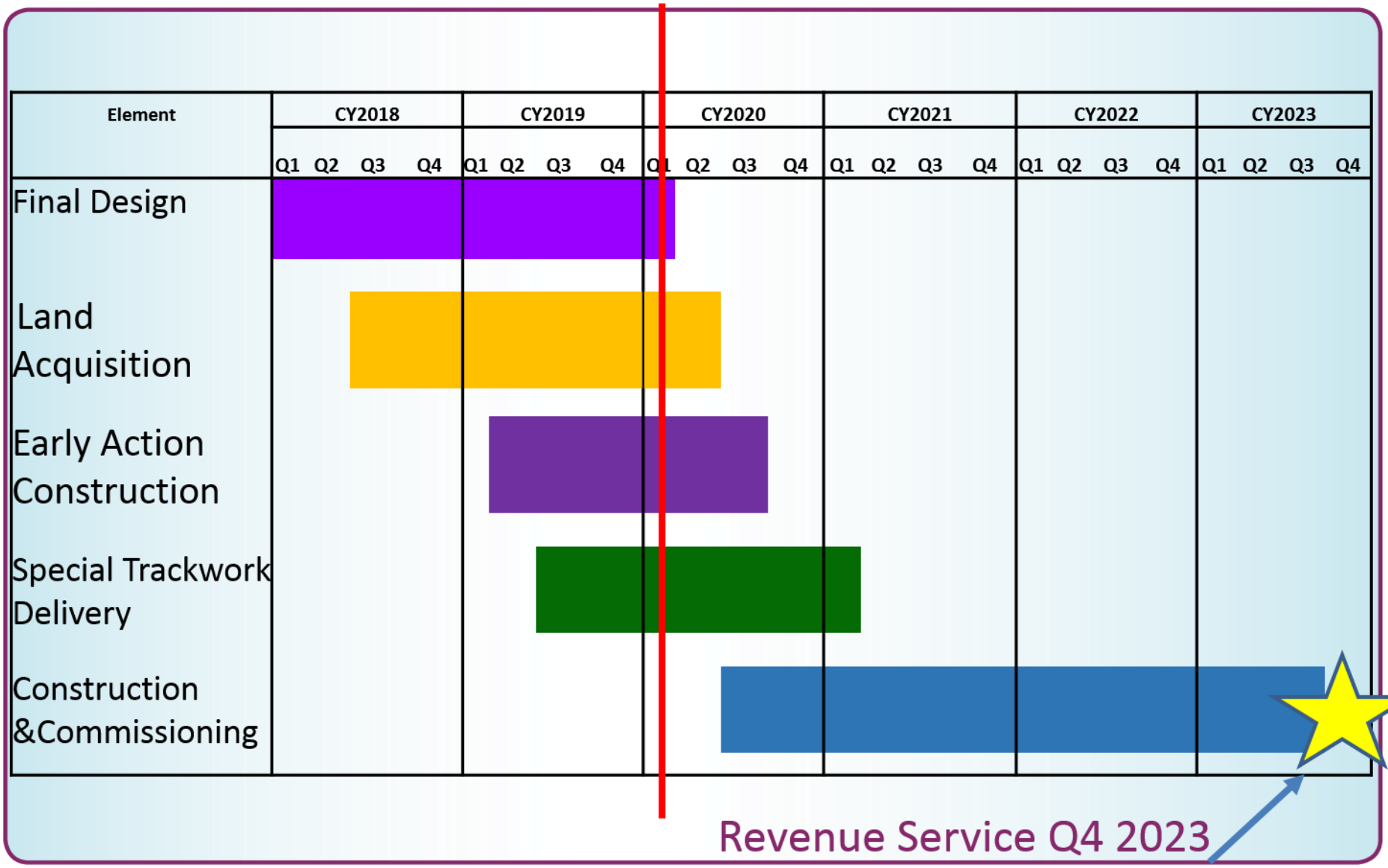
- Restore Rail Service to South Coast Region
- Upgrade 38 Miles Freight Rail Infrastructure to Support Commuter Rail
- Six New Stations
- Upgrade Bridges, Rail, Crossings, Systems


SCR
SOUTH COAST RAIL
PMCM
massDOT
South Station
JFK/UMass Station
Quincy Center Station
Braintree Station
Holbrook/Randolph Station
Montello Station
Brockton Station
Campello Station
Middleborough Main Line (Existing Commuter Rail)
Bridgewater Station
East Taunton Station
Middleborough Station
Freetown Station
North New Bedford Station
Weaver's Cove Layover
Wamsutta Layover
Fall River Depot Station
New Bedford Station
Existing Commuter Rail
New Stations (6)
New Layovers (2)
Middleborough Secondary
Fall River Secondary
New Bedford Mainline

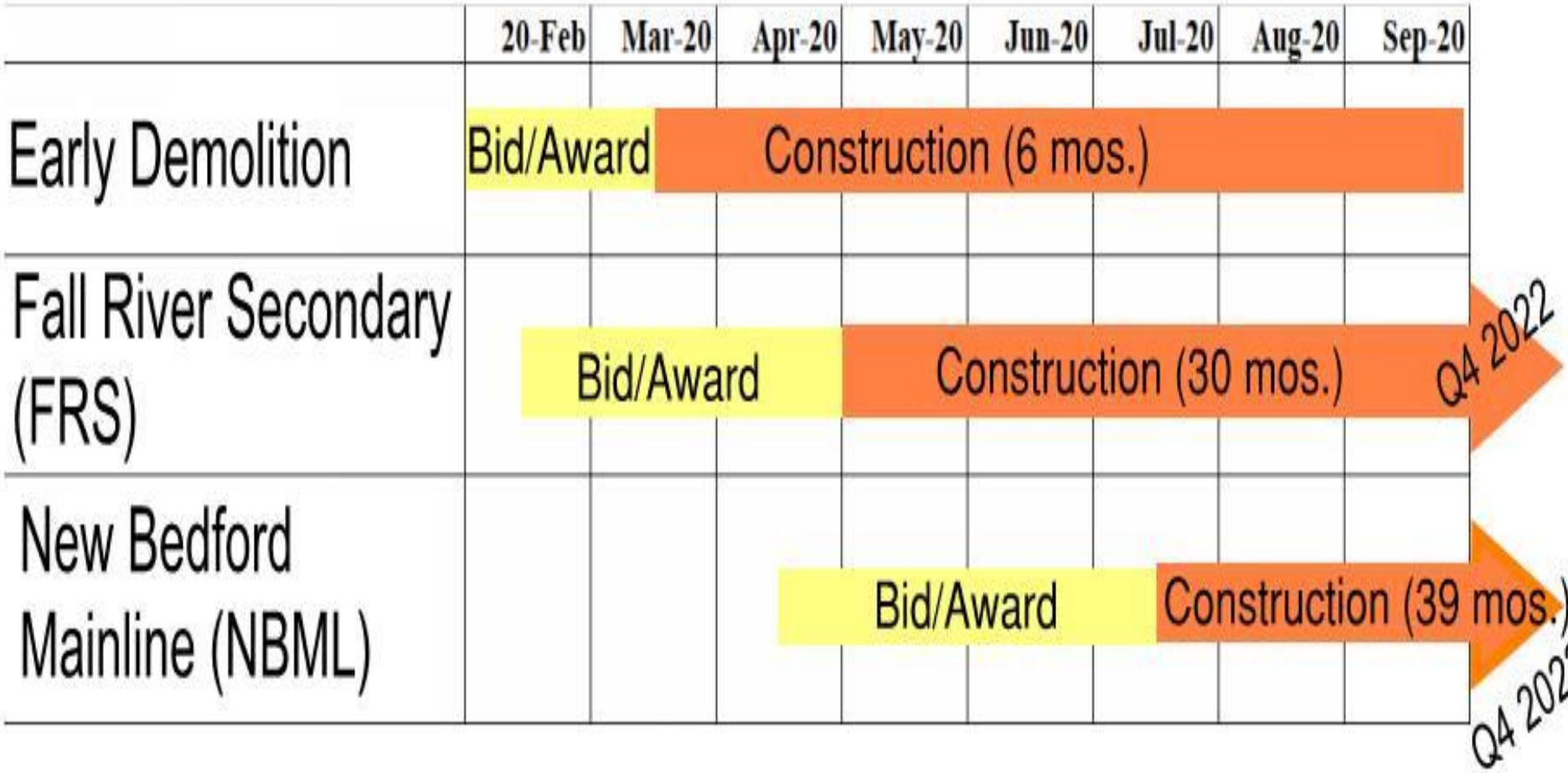
SCR Program Delivery Team

Organization	Role
MBTA	Program Management Commissioning/Operations
MASS DOT	Early Action Construction
VHB/HNTB	Engineer/Architect
AECOM/HDR	PM/CM
WSP	Owner's Representative
Mass Coastal/Keolis	Force Account Support
Many of you	Construction

Phase 1 Schedule



SCR Upcoming Construction Bids



Early Demolition (Contract K78CN02)

Bids Due February 27, 2020

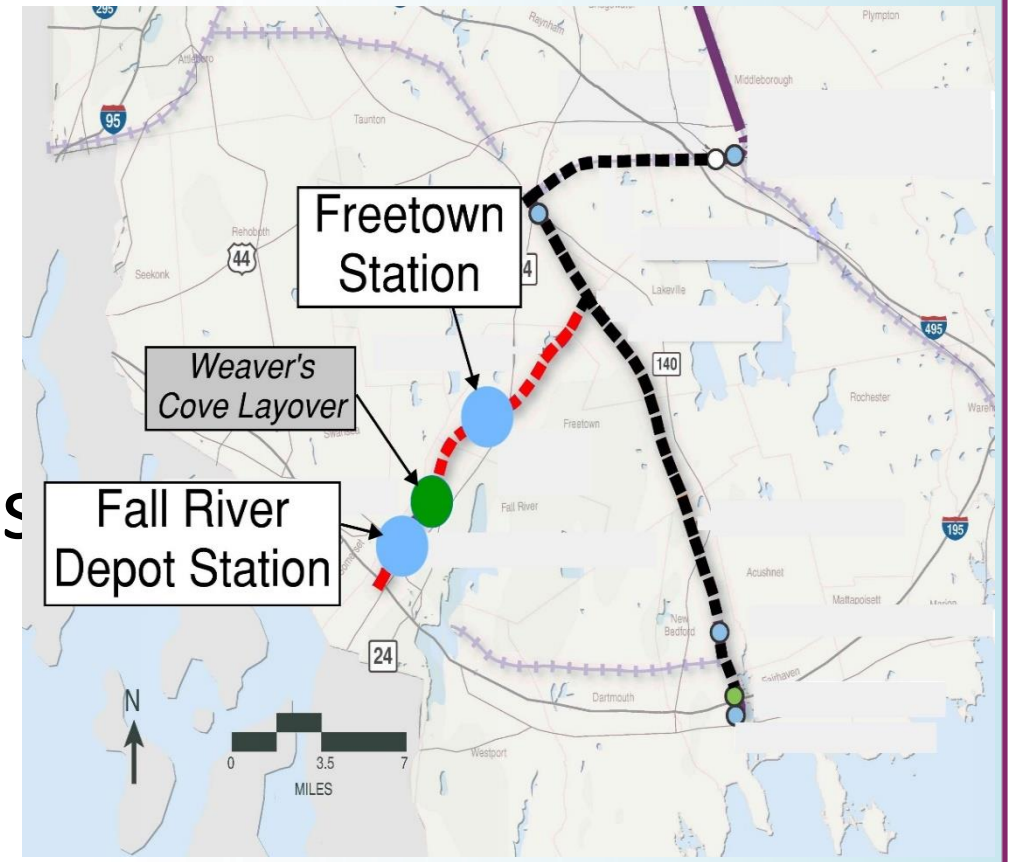
Scope:

- Demolition at nine (9) Sites
- Asbestos/Lead Abatement
- Cut/Cap Utilities
- Debris Disposal
- Backfill/Grade/Loam/Seed
- Fencing

Fall River Secondary (FRS) (Contract K78CN03)

Bidding Period February-April 2020

- 11 Miles of Track
- 2 New Stations
- 1 Layover Facility
- 8 Bridges
- 10 Grade Crossings
- 10 Culverts
- Systems
- Infrastructure



FRS: Full Depth and Modified Track

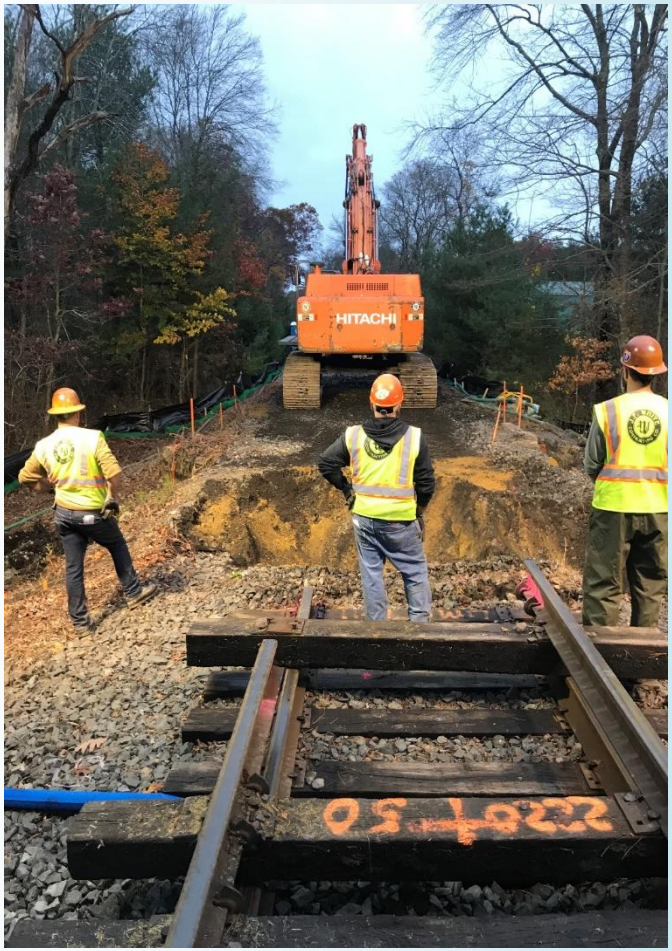
Full Depth Section (41,000 TF)

- New Ballast and Sub-Ballast
- 100% New 136 lb rail

Modified Section (11,800 TF)

- 100% new 136 lb rail
- 9” min. track raise

Ballast Vibration Mitigation (12,000 TF)



Fall River Secondary Retaining Walls

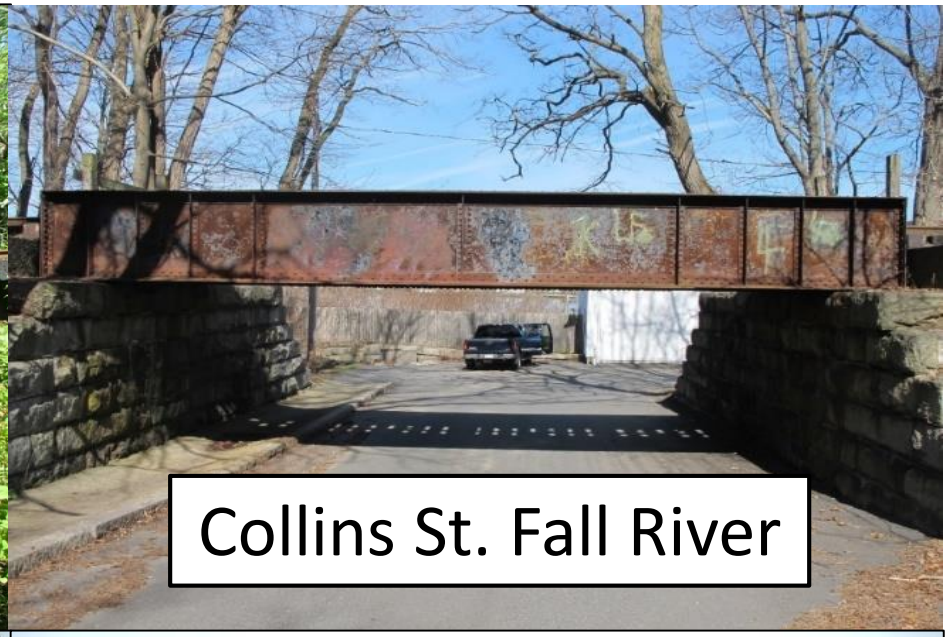
- Sheet Pile
- Soldier Pile and Lagging
- Precast Concrete Block

Bridge Summary

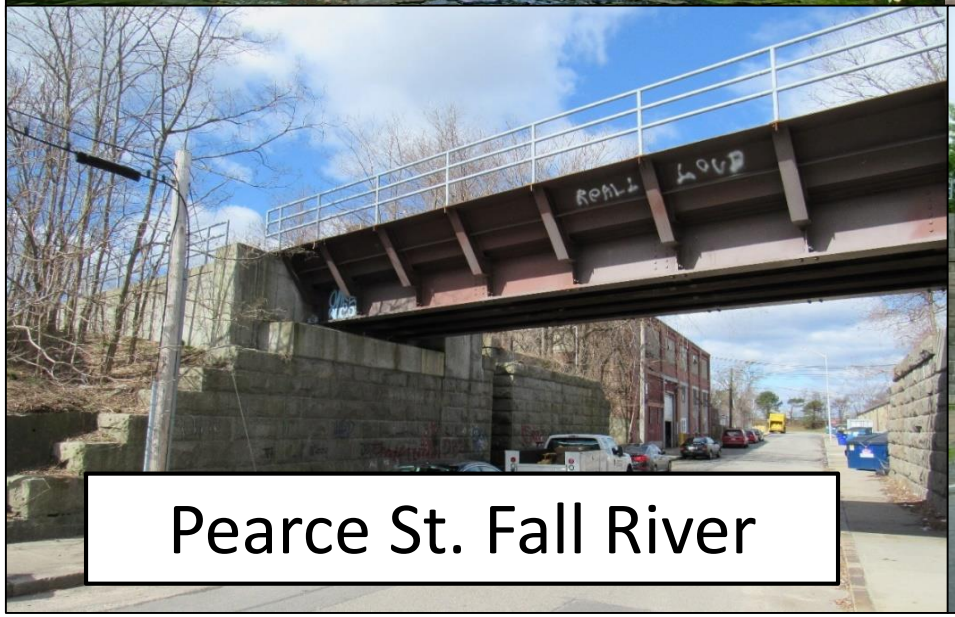
Bridge	Type
Assonet River Bridge	Ballasted deck
Farm Road North	Box culvert
Farm Road South	Box culvert
Collins Street	Ballasted deck
Ashley's Underpass	Box culvert
Golf Cart Path	Pedestrian bridge
Turner Street	Ballasted deck
Pearce Street	Ballasted deck

Bridges

Assonet River Lakeville



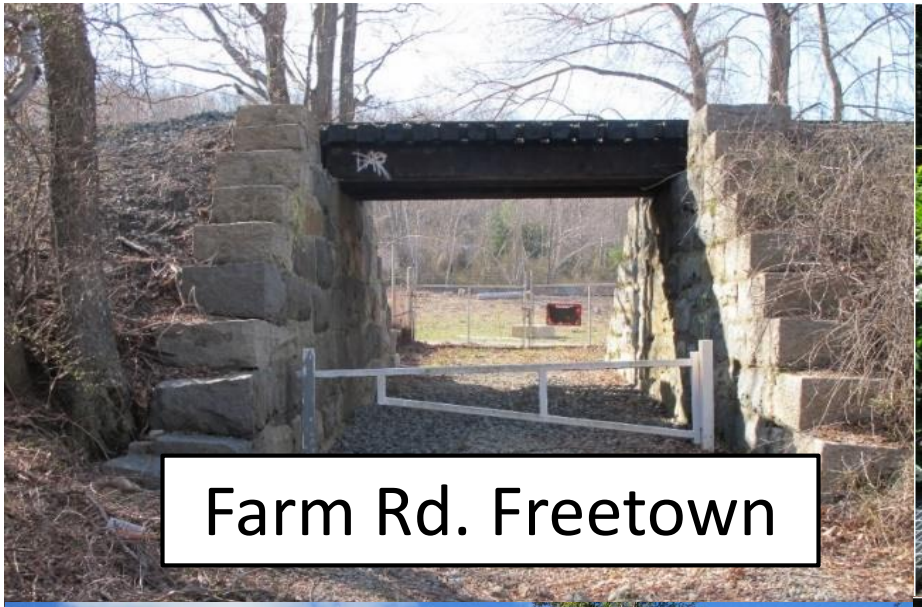
Collins St. Fall River



Pearce St. Fall River

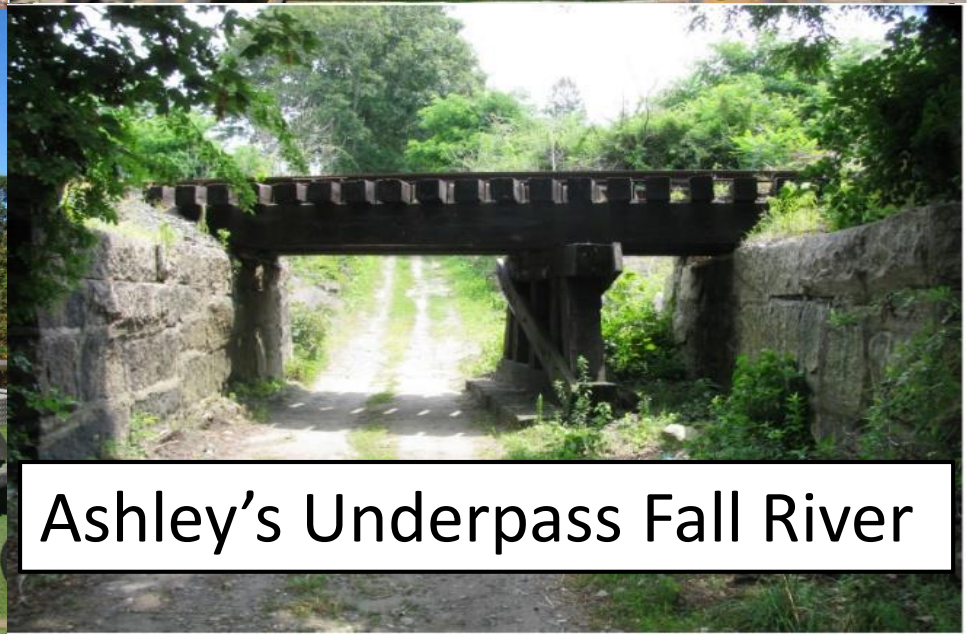
Turner St. Fall River

Bridges Continued

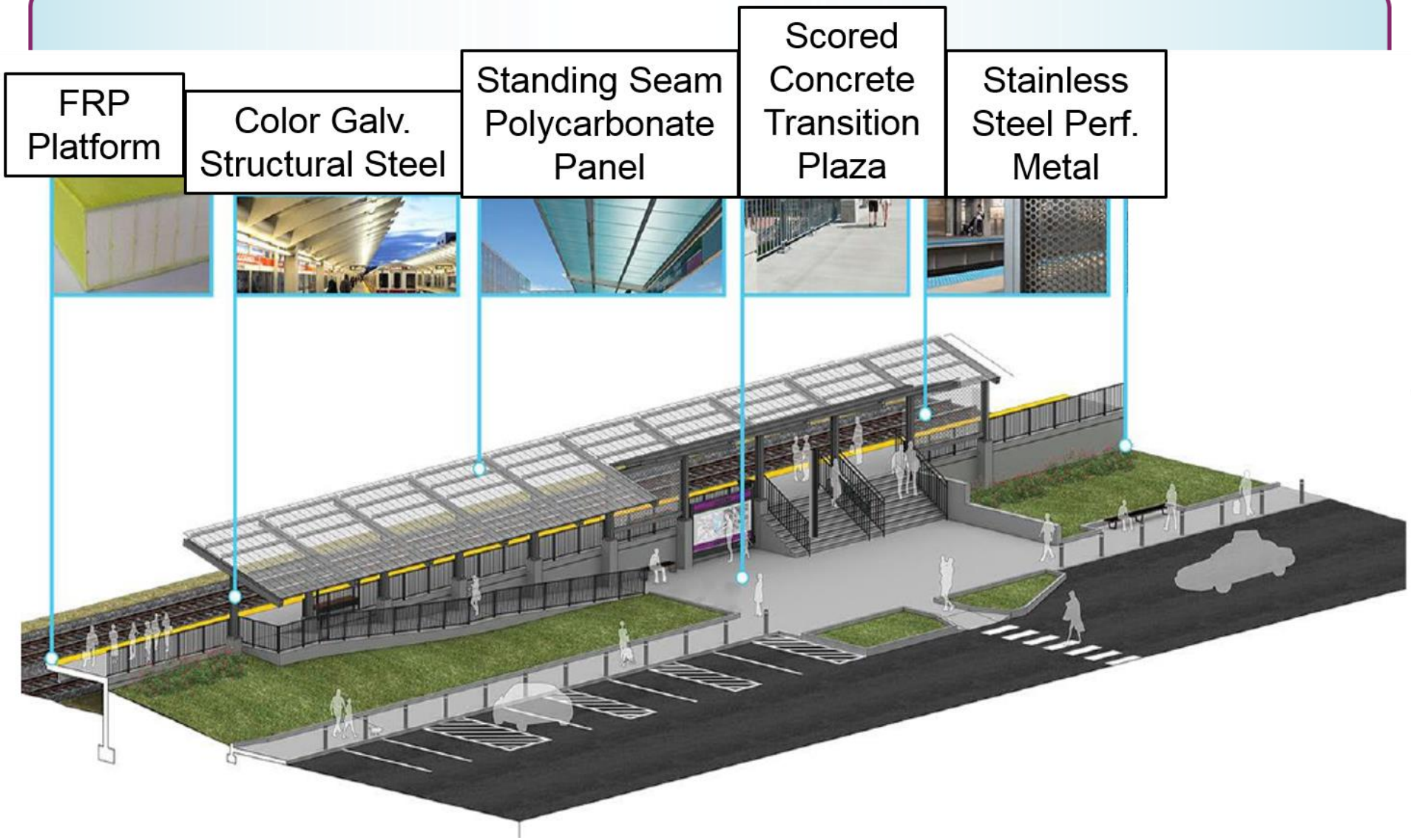

Farm Rd. Freetown

Farm Rd. Freetown

Golf Cart Path Fall River


Ashley's Underpass Fall River

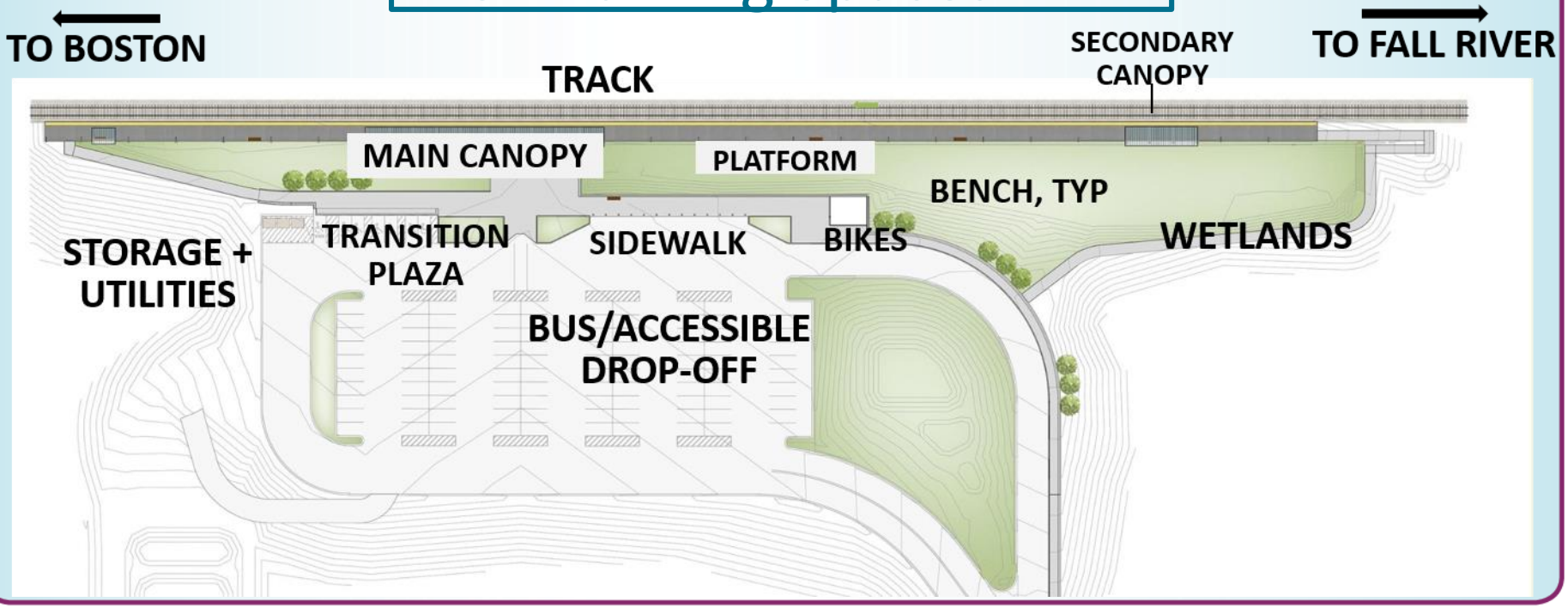
Station Materials



Freetown Station

Freetown Station Continued

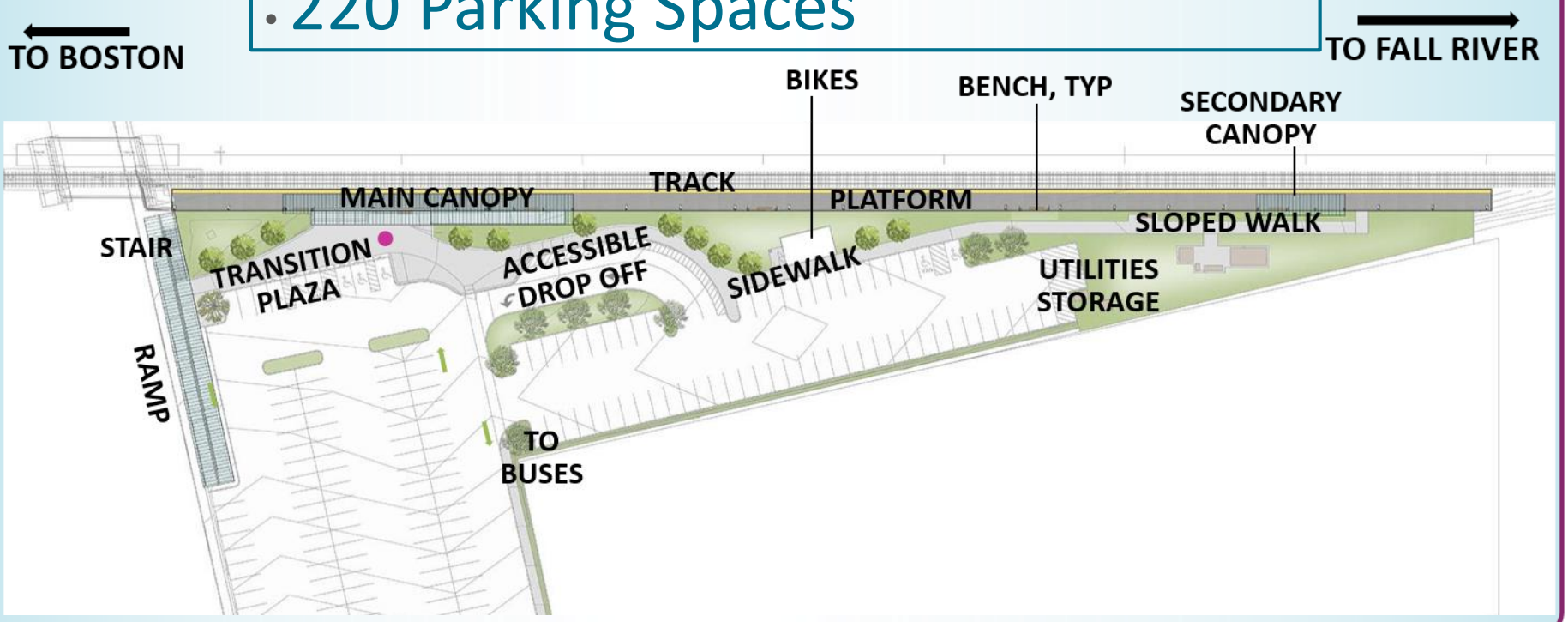
- 2 Canopies
- High Level Side Platform
- Storage & Utilities
- Kiss & Ride
- 107 Parking Spaces



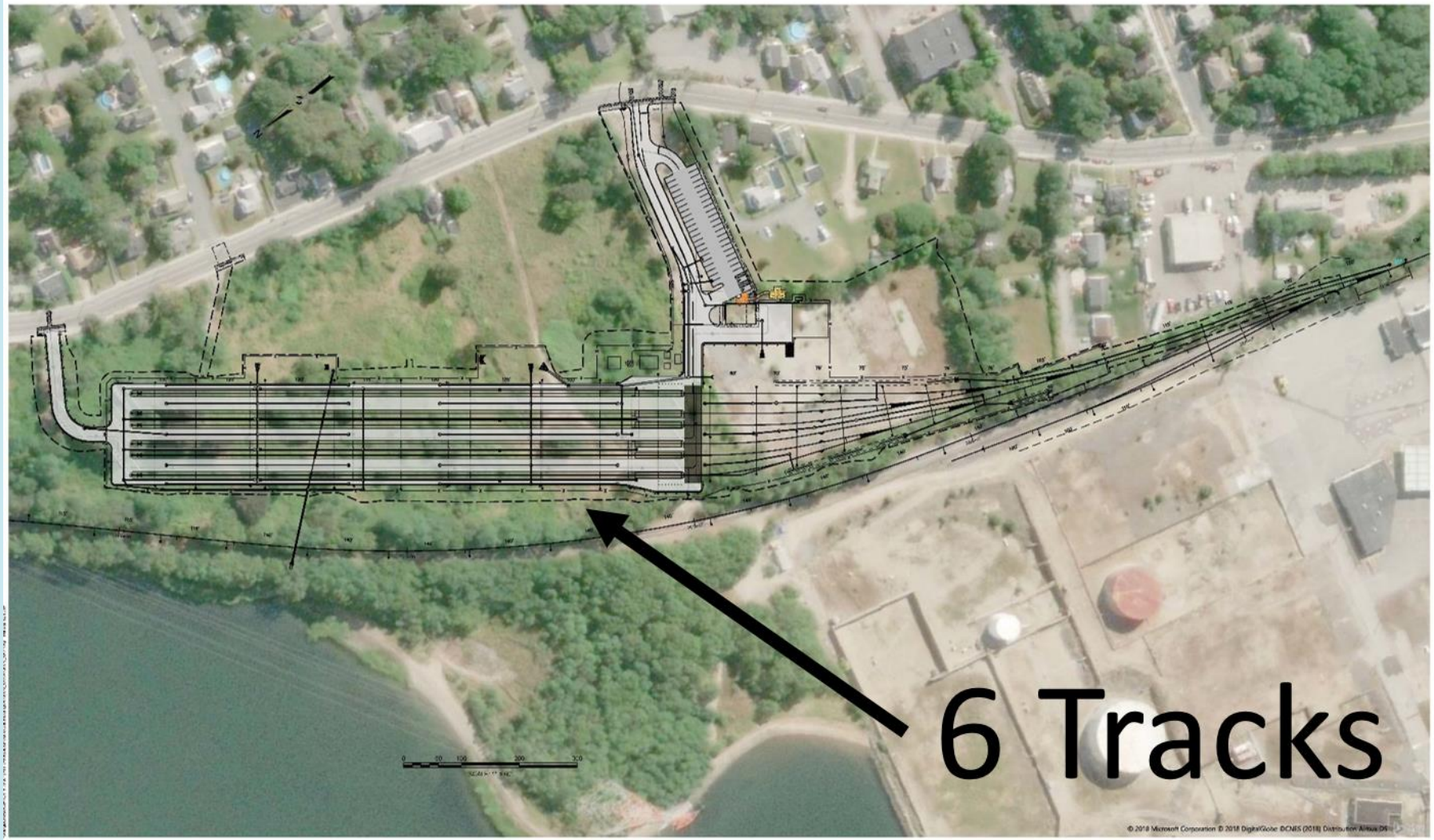
Fall River Depot Station

Fall River Depot Station Continued

- Bus drop off on North Main St.
- High Level Side Platform
- 2 Canopies
- Storage & Utilities
- 220 Parking Spaces



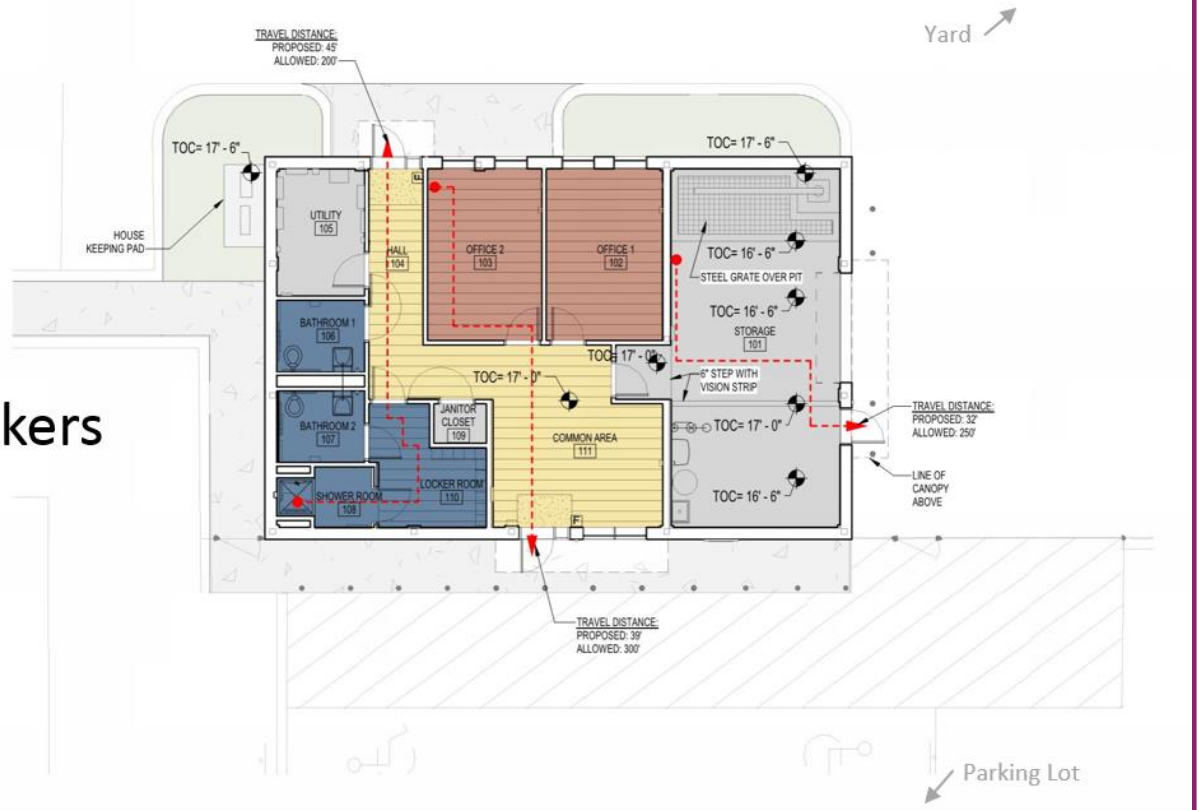
Weaver's Cove Layover



Weaver's Cove Layover Continued

KEY

- Common Area
- Offices
- WC, Showers, Lockers
- Storage & Utility



Total Area: 1875 sf

Weaver's Cove Layover Crew Building

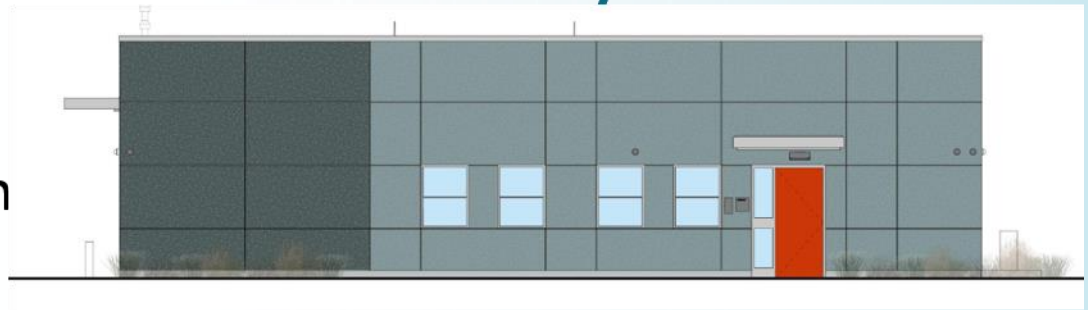
MATERIALS

Metal Windows

Metal Canopy

Fiber Cement Sidin

Front Entry Elevation

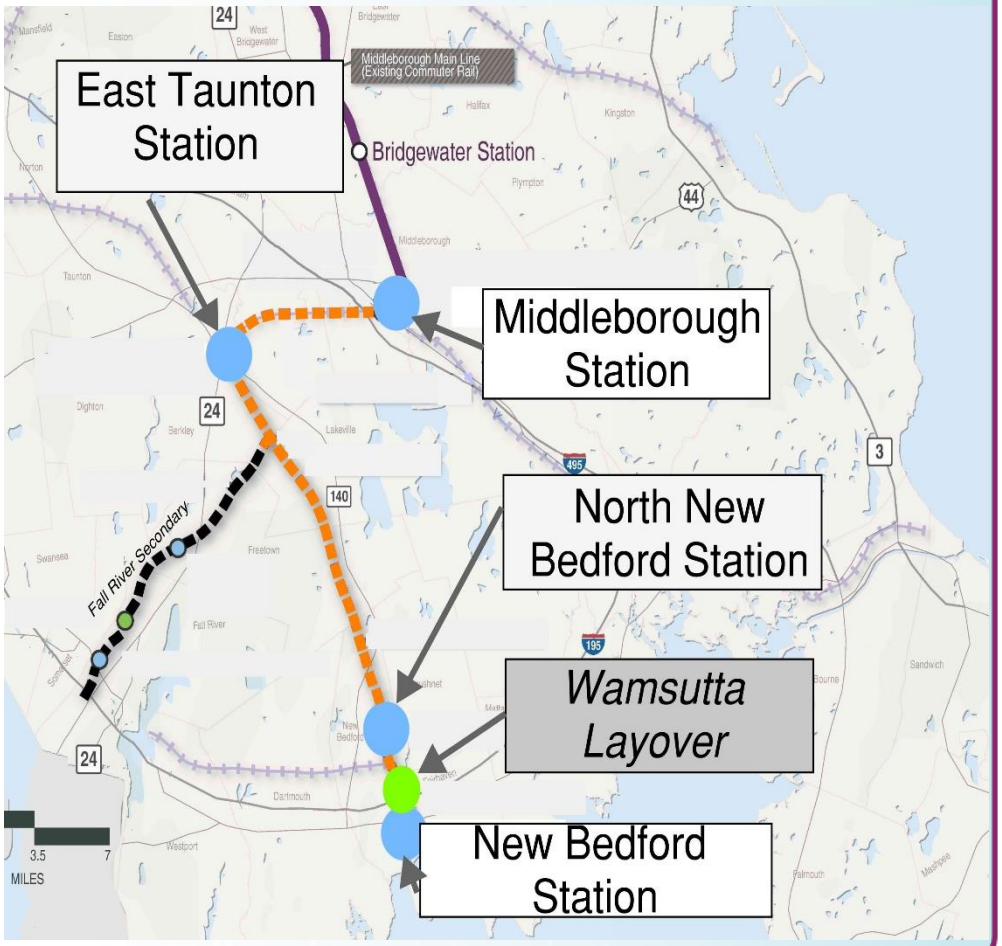


Rear Entry Elevation

New Bedford Mainline/Middleborough Secondary (Contract K78CN04)

Bidding Period April-June 2020

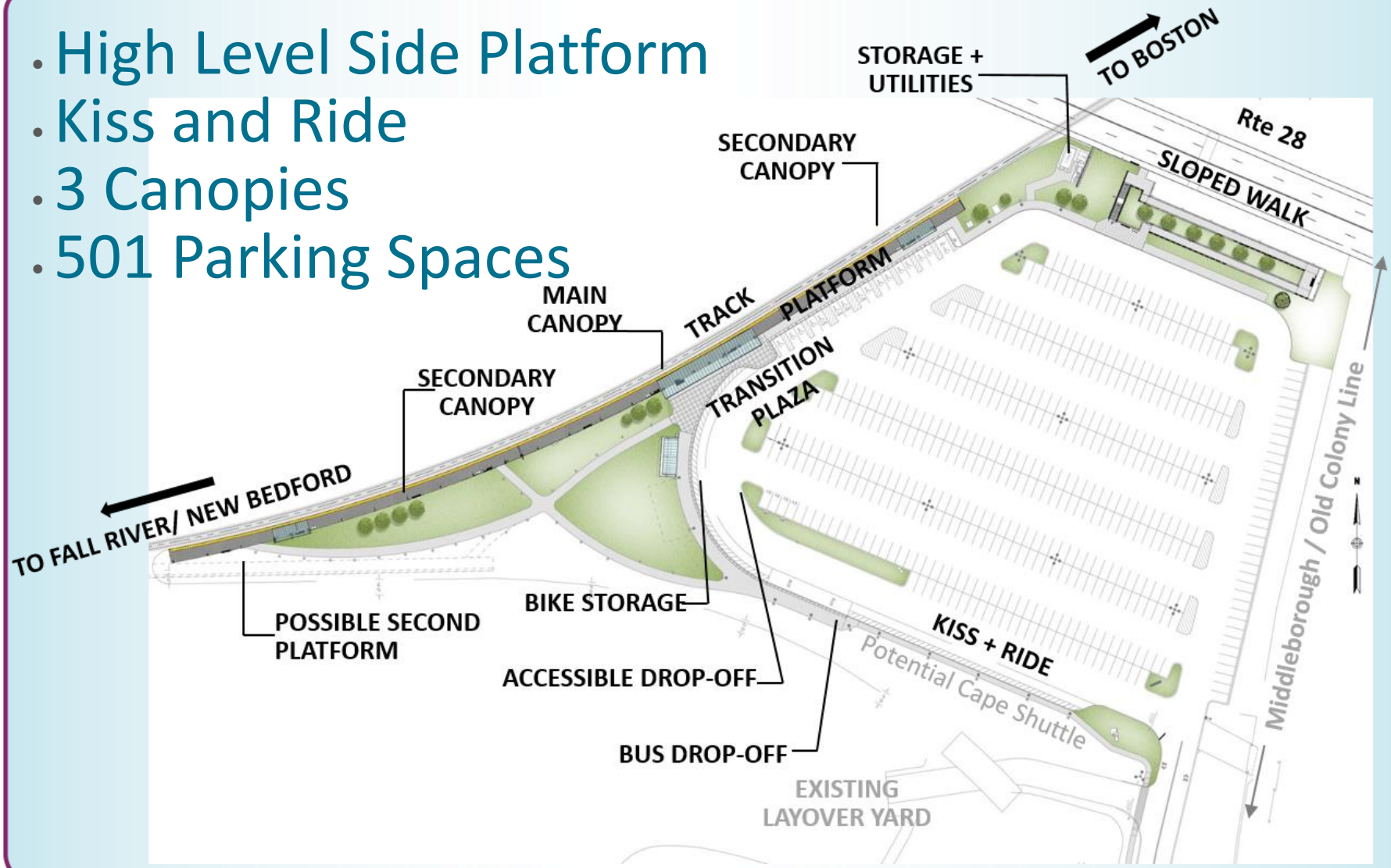
- 27 Miles Track
- 4 New Stations
- 1 Layover (Wamsutta
- 11 Grade Crossings
- 10 Culverts
- Systems Installation
- Positive Train Control
- Test/Commissioning
- Safety Certifications



Middleborough Station

Middleborough Station Continued

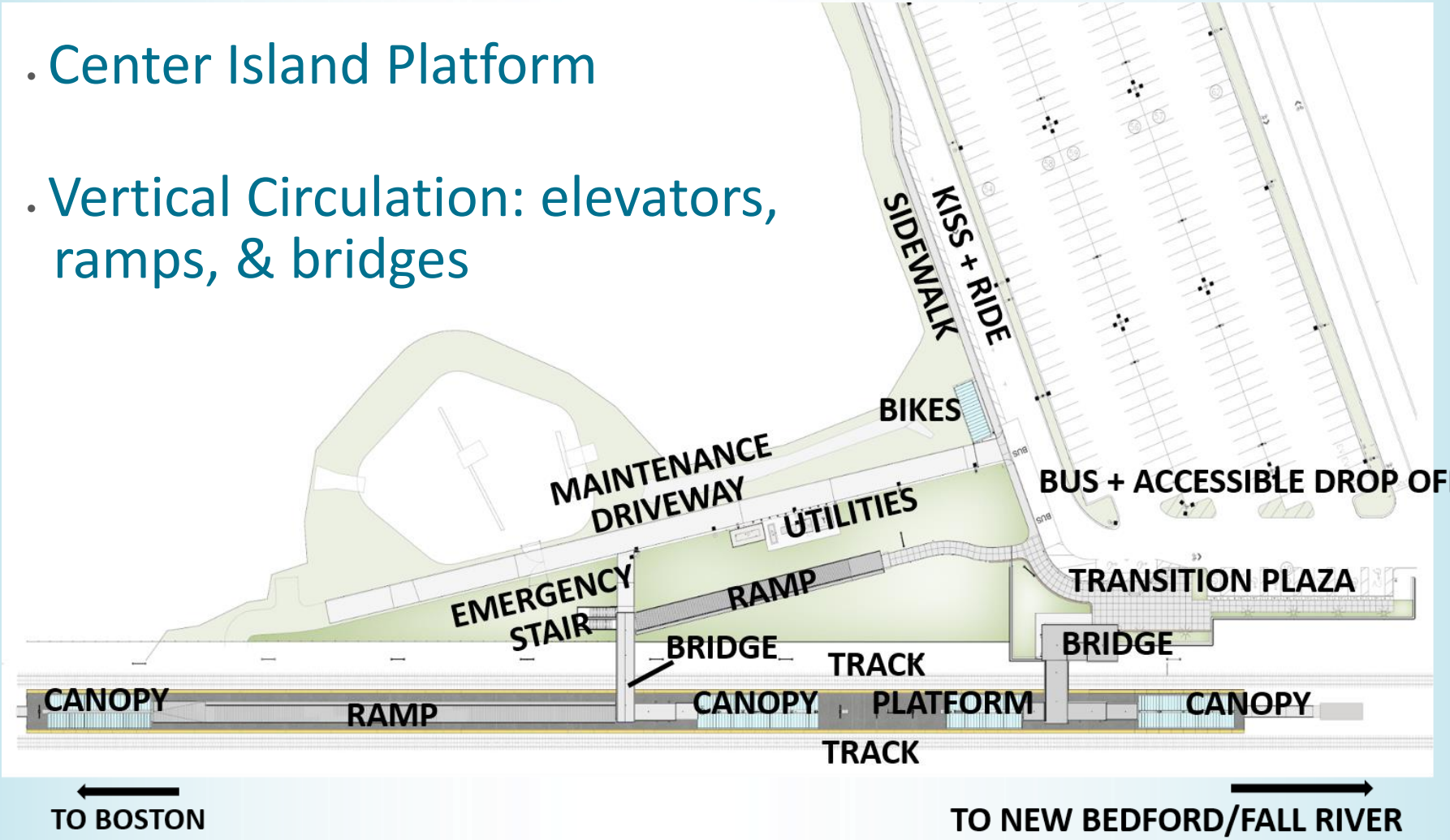
- High Level Side Platform
- Kiss and Ride
- 3 Canopies
- 501 Parking Spaces



East Taunton Station

East Taunton Station Continued

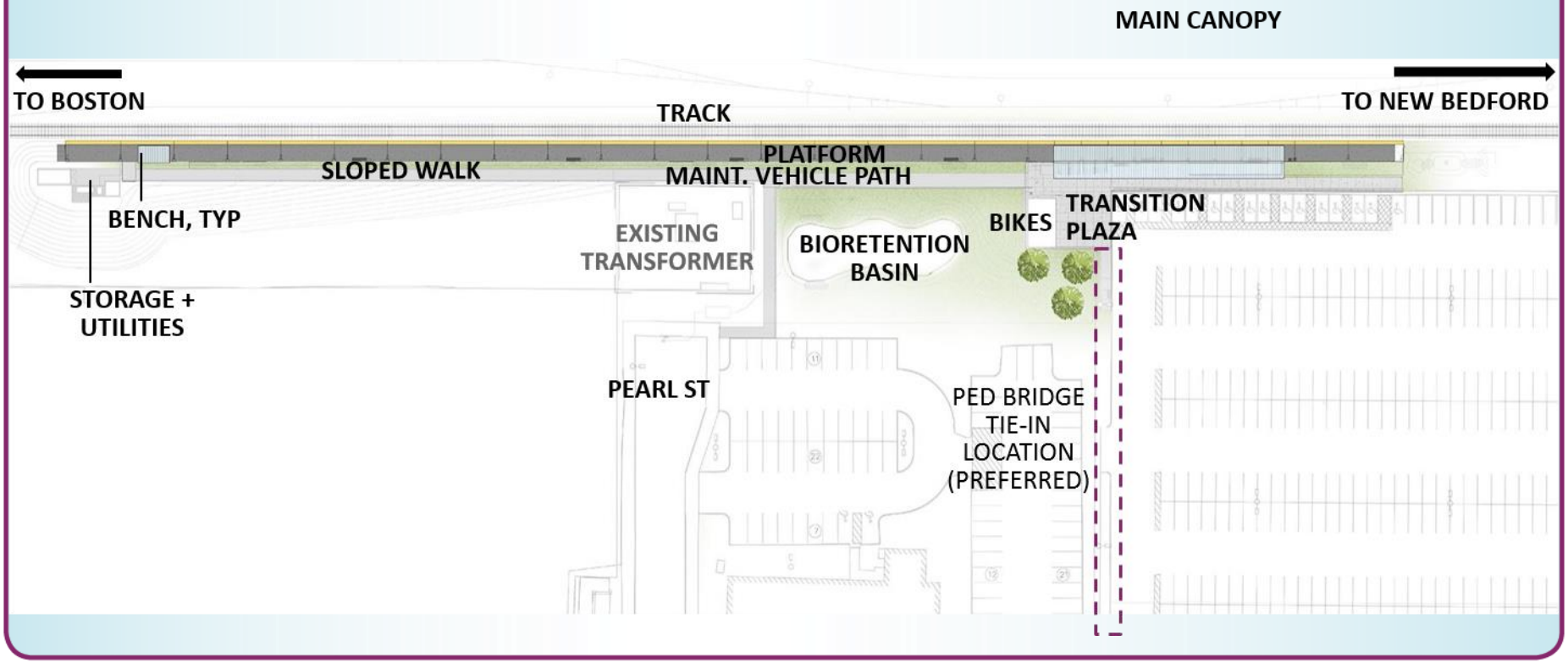
- Center Island Platform
- Vertical Circulation: elevators, ramps, & bridges



New Bedford Station

New Bedford Station Continued

- New pedestrian bridge over Rt 18
- High Level Side Platform
- 2 Canopies
- 352 Parking Spaces



New Bedford Mainline Track Improvements

- Single Track – 69,300 Track Feet
- Double Track – 31,300 Track Feet
- Wamsutta Yard – 8,000 Track Feet
- Install 38 turnouts (MBTA Supplied)
  - 33 Main line turnouts
  - 5 Yard turnouts
- 9,300 LF of Ballast mats for
- vibration mitigation
- All new rail – 136 lb rail

New Bedford Mainline Retaining Walls

- Sheet Pile
- Soldier Pile and Lagging
- Precast Concrete Block

Wamsutta Layover Facility

- 6 Tracks
- Crew Quarters
- Employee Parking
- Gated Facility

Wamsutta Layover Continued

KEY

- Common Area
- Offices
- WC, Showers, Lockers
- Storage & Utility

Total Area: 1875 sf

Wamsutta Layover Crew Building

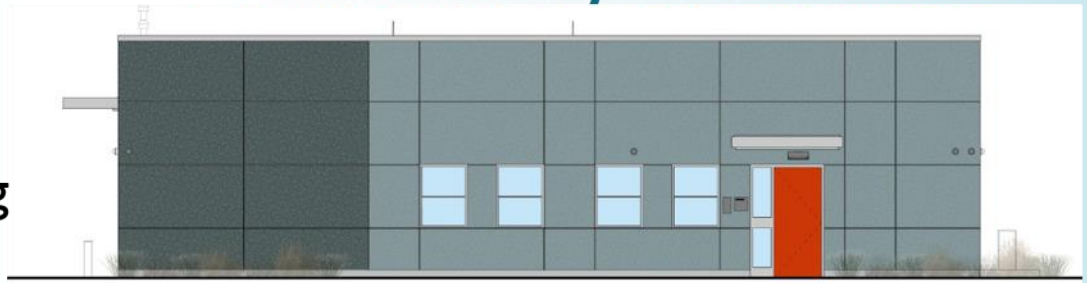
MATERIALS

Metal Windows

Metal Canopy

Fiber Cement Siding

Front Entry Elevation



Rear Entry Elevation

Furnish/Install Communications System

- Fiber Optic Backbone
- VHF Radio System
- Access Control/CCTV Systems
- Network Switches

Furnish/Install Signal Systems

- Signal Cabling
- Signal Equipment (110 SIHs and Cases)
- Interlockings
- New or Upgraded Signals at Grade Crossings
- Signal Power Equipment & Distribution
- Civil Support: Manholes/Duct banks
- Independent Vital and Non-Vital Network for Remote Access

Positive Train Control

Furnish and Install:

- PTC Antenna and Mast
- PTC Radio
- PTC Network Switches
- All Wayside PTC Infrastructure Including Transponders
- Back Office Upgrades at CTEC (Amtrak) and CROCC (MBTA)

Systems Integration: Testing and Commissioning

- Safety Certification
- System Integration Testing
- Rail Activation Plan

Fill Management

- Mass DEP Approved
- Maximize Re-Use of Excavated Soil
- Use Weaver's Cove as Soil Transfer Location
- New Bedford Line: Deliver Excess Fill To FRS
- Allowance Item: Off Site Disposal For Unacceptable Soil

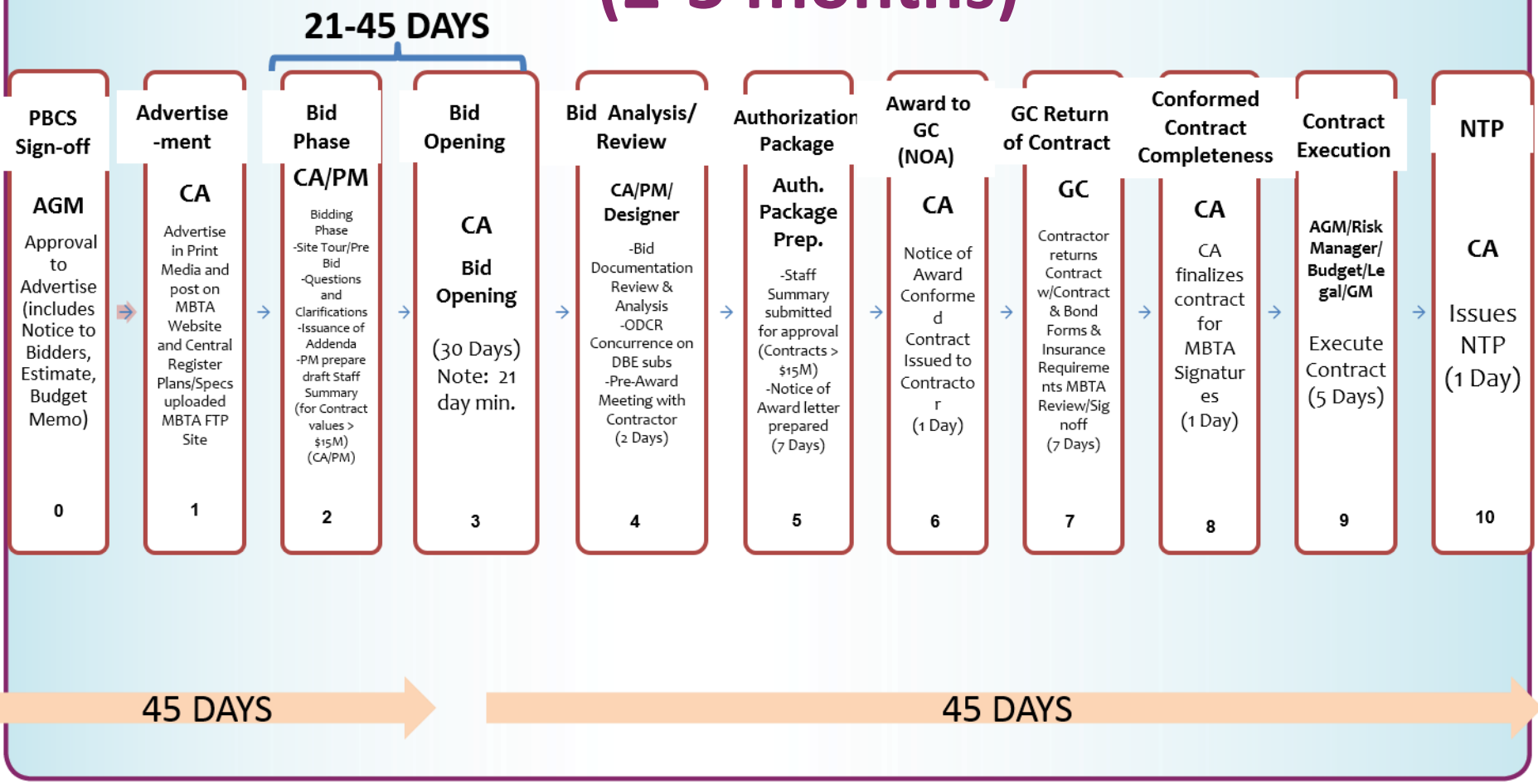
Environmental Requirements

- MBTA Obtained Permits
- Work Limits, Time of Year
- Contractor Compliance

Chapter 30 Section 39M Design Bid Build Procurement

Advertisement to NTP

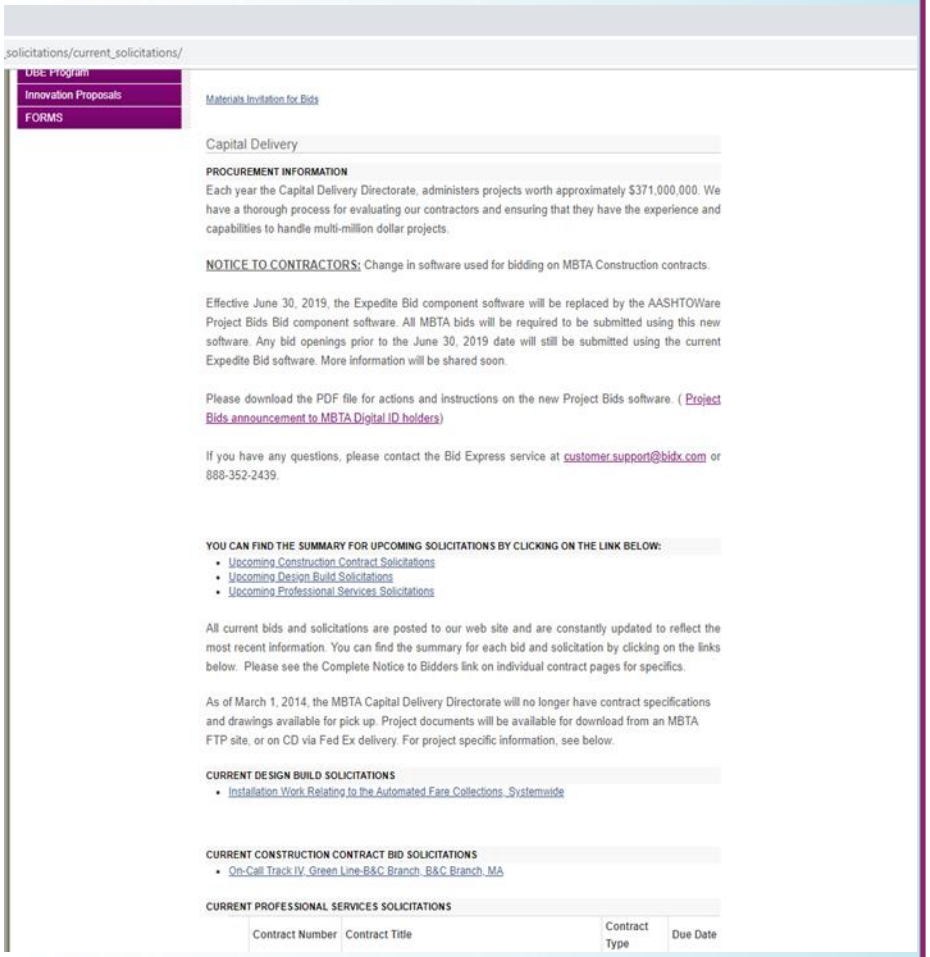
(2-3 months)



FY2020 Planned Construction Contract Advertisements & Bidding Schedule				
Contract No.	**Description**	**Engineer's Estimate**	**Adv. Date**	**Bid Date (2nd or 4th Thur)**
T25CN01	On- Call Track and MOW IV GL B & C Branches	$22,000,000	01/27/20	02/27/20
K78CN02	SCR-Early Building Demolition of Properties on ROW	$2,000,000	01/31/20	02/27/20
K78CN03	SCR-Fall River Secondary Commuter Rail - Berkley to Fall River	$150,000,000	02/07/20	04/02/20
	On-Call Track and MOW V (Transit)	$24,000,000	02/10/20	03/12/20
A25CN01	Green Line B-Branch Station Consolidation	$18,000,000	02/13/20	03/12/20
	Courthouse Station Headhouse	$11,000,000	02/14/20	03/26/20
S17CN01	Aquarium Station Flood Proofing Improvements	$1,000,000	02/20/20	03/19/20
X02CN04	Courthouse Station Waterproofing & Resiliency Repairs	$22,000,000	04/14/20	05/14/20
K78CN04	SCR- MS/NBML Middleboro to New Bedford	$400,000,000	04/15/20	06/11/20
J66CN01	Winchester Station Improvements	$39,600,000	05/29/20	06/25/20
	East Street Bridge (Dedham)	$12,000,000	06/10/20	08/13/20
	Norfolk Ave. & East Cottage Street Bridges	$24,000,000	06/20/20	08/13/20
	On-Call Track and MOW (CR)	$10,000,000	07/08/20	08/06/20
	Worcester Union Station	$49,000,000	08/20/20	10/01/20
	On- Call Structures Repairs Systemwide	$8,000,000	09/21/20	10/22/20
	Rt. 128 Parking Garage Repairs	$11,000,000	11/20/20	01/07/21
1/30/2020	**TOTAL**	$803,600,000		

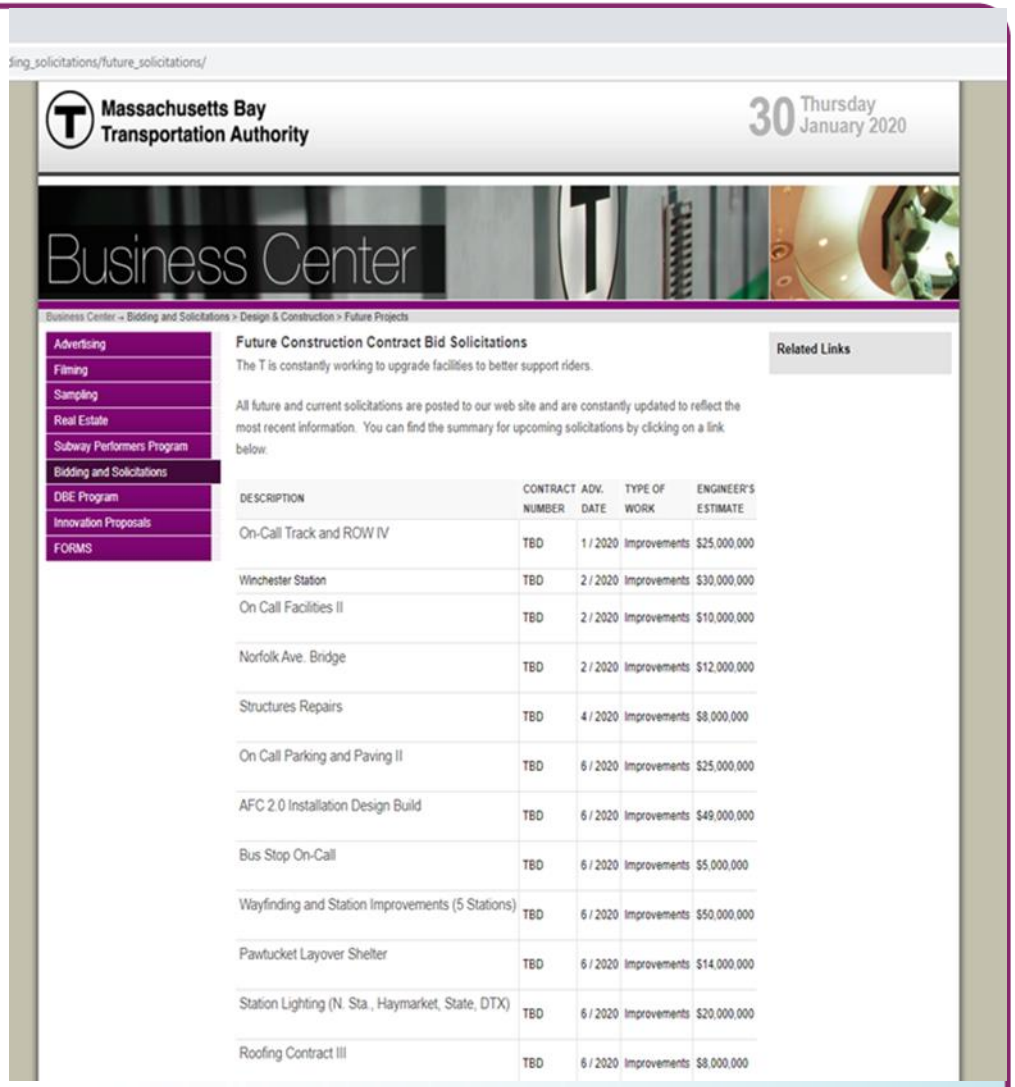
Helpful Links

https://bc.mbta.com/business_center/bidding_solicitations/current_solicitations/


solicitations/current_solicitations/
DBE Program
Innovation Proposals
FORMS
Materials Invitation for Bids
Capital Delivery
PROCUREMENT INFORMATION
Each year the Capital Delivery Directorate, administers projects worth approximately $371,000,000. We have a thorough process for evaluating our contractors and ensuring that they have the experience and capabilities to handle multi-million dollar projects.
NOTICE TO CONTRACTORS: Change in software used for bidding on MBTA Construction contracts.
Effective June 30, 2019, the Expedite Bid component software will be replaced by the AASHTOWare Project Bids Bid component software. All MBTA bids will be required to be submitted using this new software. Any bid openings prior to the June 30, 2019 date will still be submitted using the current Expedite Bid software. More information will be shared soon.
Please download the PDF file for actions and instructions on the new Project Bids software. (Project Bids announcement to MBTA Digital ID holders)
If you have any questions, please contact the Bid Express service at customer.support@bidx.com or 888-352-2439.
YOU CAN FIND THE SUMMARY FOR UPCOMING SOLICITATIONS BY CLICKING ON THE LINK BELOW:
Upcoming Construction Contract Solicitations
Upcoming Design Build Solicitations
Upcoming Professional Services Solicitations
All current bids and solicitations are posted to our web site and are constantly updated to reflect the most recent information. You can find the summary for each bid and solicitation by clicking on the links below. Please see the Complete Notice to Bidders link on individual contract pages for specifics.
As of March 1, 2014, the MBTA Capital Delivery Directorate will no longer have contract specifications and drawings available for pick up. Project documents will be available for download from an MBTA FTP site, or on CD via Fed Ex delivery. For project specific information, see below.
CURRENT DESIGN BUILD SOLICITATIONS
Installation Work Relating to the Automated Fare Collections, Systemwide
CURRENT CONSTRUCTION CONTRACT BID SOLICITATIONS
On-Call Track IV, Green Line-B&C Branch, B&C Branch, MA
CURRENT PROFESSIONAL SERVICES SOLICITATIONS
Contract Number
Contract Title
Contract Type
Due Date

Helpful Links Continued

https://bc.mbta.com/business_center/bidding_solicitations/future_solicitations/



Massachusetts Bay Transportation Authority

30 Thursday January 2020

Business Center

Business Center → Bidding and Solicitations > Design & Construction > Future Projects

- Advertising
- Filming
- Sampling
- Real Estate
- Subway Performers Program
- Bidding and Solicitations
- DBE Program
- Innovation Proposals
- FORMS

Future Construction Contract Bid Solicitations

The T is constantly working to upgrade facilities to better support riders.

All future and current solicitations are posted to our web site and are constantly updated to reflect the most recent information. You can find the summary for upcoming solicitations by clicking on a link below.

Related Links

DESCRIPTION	CONTRACT NUMBER	ADV. DATE	TYPE OF WORK	ENGINEER'S ESTIMATE
On-Call Track and ROW IV	TBD	1 / 2020	Improvements	$25,000,000
Winchester Station	TBD	2 / 2020	Improvements	$30,000,000
On Call Facilities II	TBD	2 / 2020	Improvements	$10,000,000
Norfolk Ave. Bridge	TBD	2 / 2020	Improvements	$12,000,000
Structures Repairs	TBD	4 / 2020	Improvements	$8,000,000
On Call Parking and Paving II	TBD	6 / 2020	Improvements	$25,000,000
AFC 2.0 Installation Design Build	TBD	6 / 2020	Improvements	$49,000,000
Bus Stop On-Call	TBD	6 / 2020	Improvements	$5,000,000
Wayfinding and Station Improvements (5 Stations)	TBD	6 / 2020	Improvements	$50,000,000
Pawtucket Layover Shelter	TBD	6 / 2020	Improvements	$14,000,000
Station Lighting (N. Sta., Haymarket, State, DTX)	TBD	6 / 2020	Improvements	$20,000,000
Roofing Contract III	TBD	6 / 2020	Improvements	$8,000,000

Discussion